

Overview of the Design and Construction Activities for Zone B



Slide Show 1 of 3

Mark Atencio

March 17, 2010

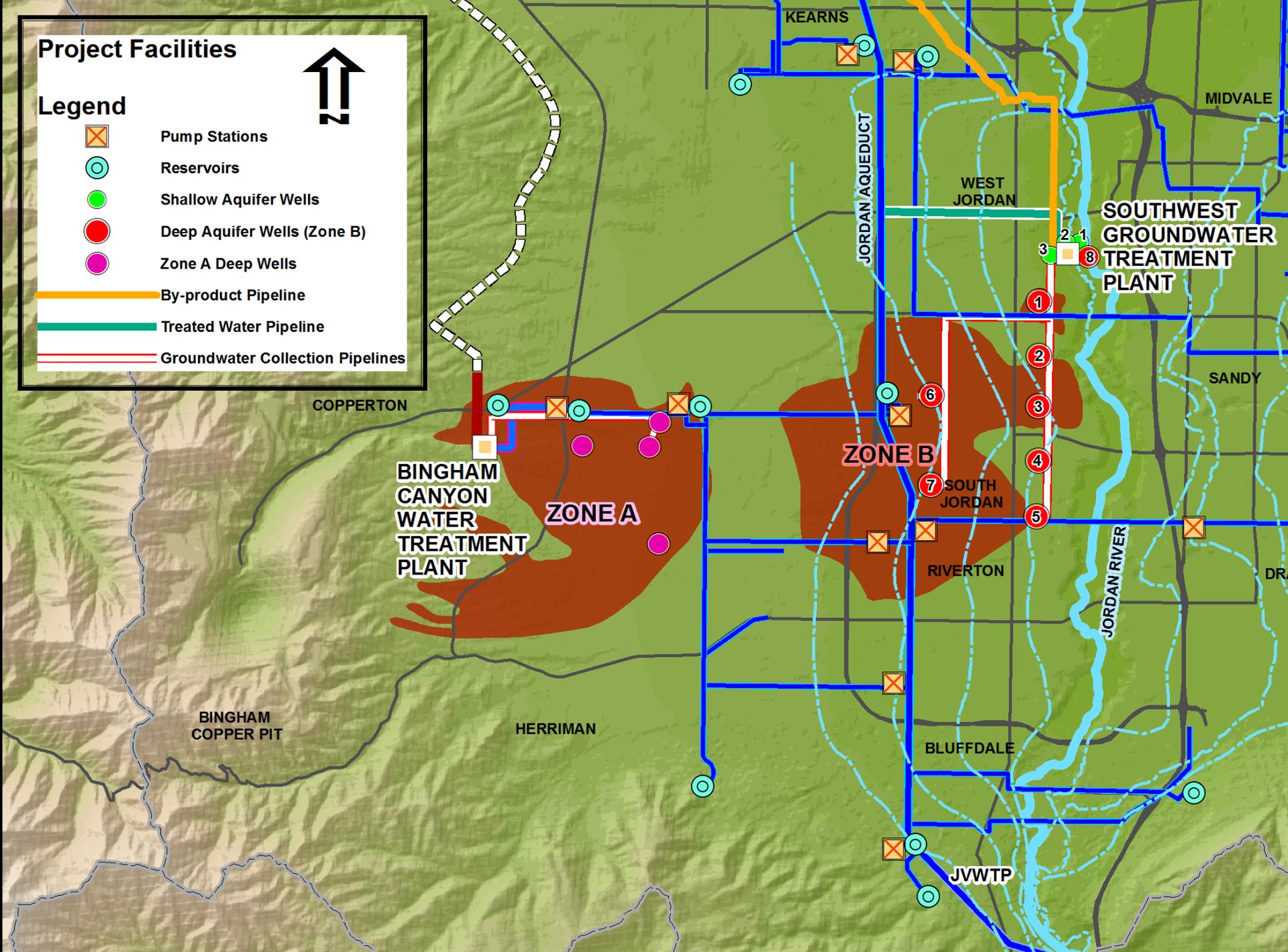


Project Facilities



Legend

-  Pump Stations
-  Reservoirs
-  Shallow Aquifer Wells
-  Deep Aquifer Wells (Zone B)
-  Zone A Deep Wells
-  By-product Pipeline
-  Treated Water Pipeline
-  Groundwater Collection Pipelines



Zone B Facilities

2009-2010 Activities

- Treatment Plant
- By-product Pipeline
- Great Salt Lake Selenium Standard
- UPDES Permit Application

Zone B Facilities

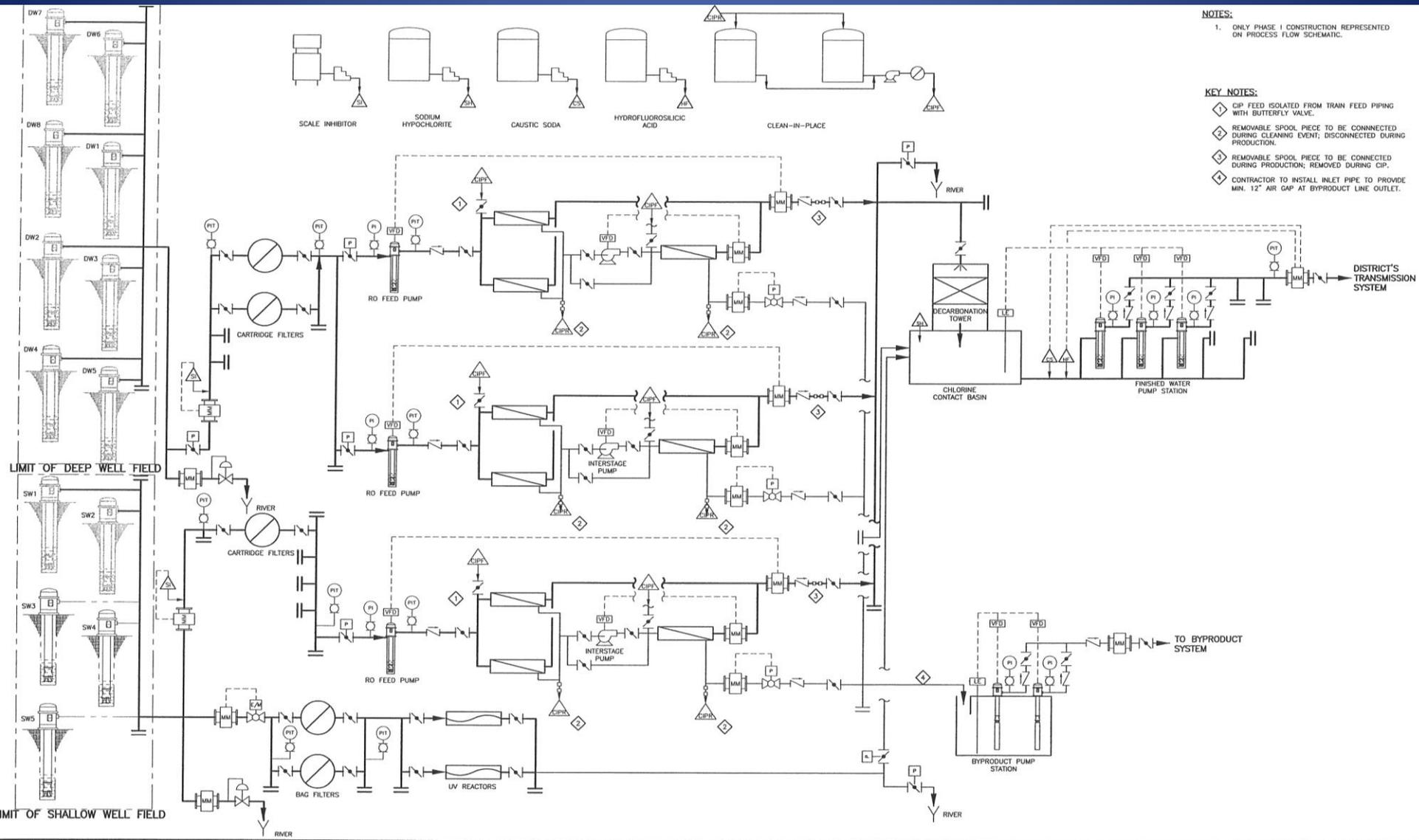
Southwest Groundwater Treatment Plant

- Design
- Bidding
- Construction

Treatment Plant Design

- Process Design
- Civil Site Plan
- Landscaping Plan
- Architectural Plan

Water Treatment Process Diagram

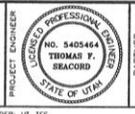


NOTES:
 1. ONLY PHASE I CONSTRUCTION REPRESENTED ON PROCESS FLOW SCHEMATIC.

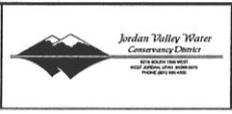
KEY NOTES:
 1. CIP FEED ISOLATED FROM TRAIN FEED PIPING WITH BUTTERFLY VALVE.
 2. REMOVABLE SPOOL PIECE TO BE CONNECTED DURING CLEANING EVENT; DISCONNECTED DURING PRODUCTION.
 3. REMOVABLE SPOOL PIECE TO BE CONNECTED DURING PRODUCTION; REMOVED DURING CIP.
 4. CONTRACTOR TO INSTALL INLET PIPE TO PROVIDE MIN. 12" AIR GAP AT BYPRODUCT LINE OUTLET.

DATE	BY	DESCRIPTION

DESIGNED TFS	DISCIPLINE ENGINEER
DRAWN TLR	
CHECKED BLB	
DATE MAY 2007	



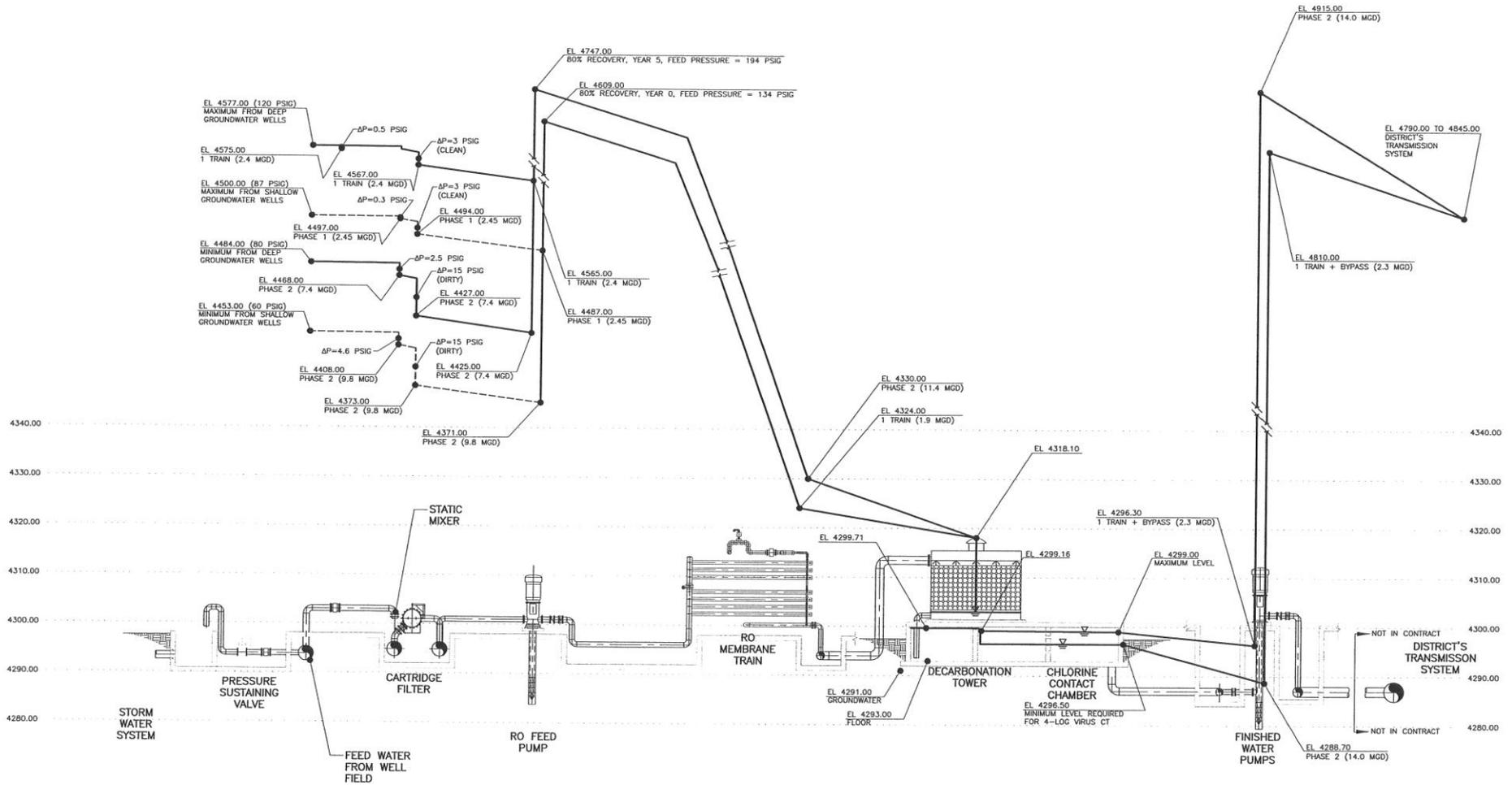
PROJECT ENGINEER
 PARTNER



JORDAN VALLEY WATER CONSERVANCY DISTRICT
 SOUTHWEST GROUNDWATER TREATMENT PLANT
 GENERAL
 PROCESS FLOW SCHEMATIC
 (PHASE 1)

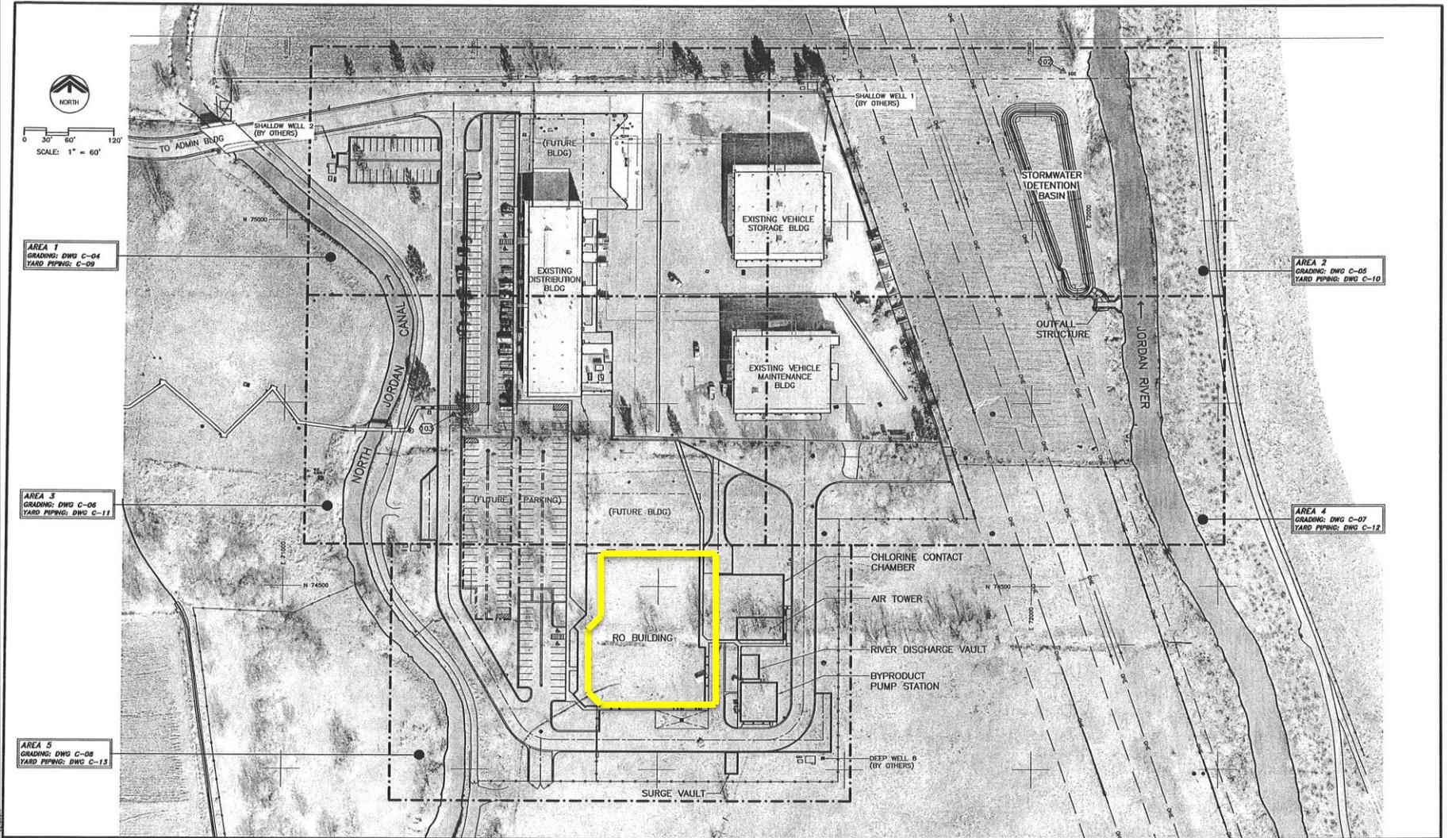
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING	JOB NO. 7096A.10
0 1" SCALE	DRAWING NO. G-07
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. OF XXX

Water Treatment Process Hydraulic Diagram



MAIN PROCESS - HYDRAULIC PROFILE
SCALE: 1" = 10' VERTICAL

Site Plan



REV	DATE	BY	DESCRIPTION

DESIGNED: JCR
 DRAWN: TSD
 CHECKED: CLC
 DATE: APRIL 2007

DISCIPLINE ENGINEER
 LICENSED PROFESSIONAL ENGINEER
 NO. 518848
 COREY L. CHRISTIANSEN
 STATE OF UTAH

PROJECT ENGINEER
 LICENSED PROFESSIONAL ENGINEER
 NO. 54684
 THOMAS F. BRADDOCK
 STATE OF UTAH

PARTNER



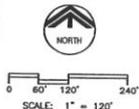
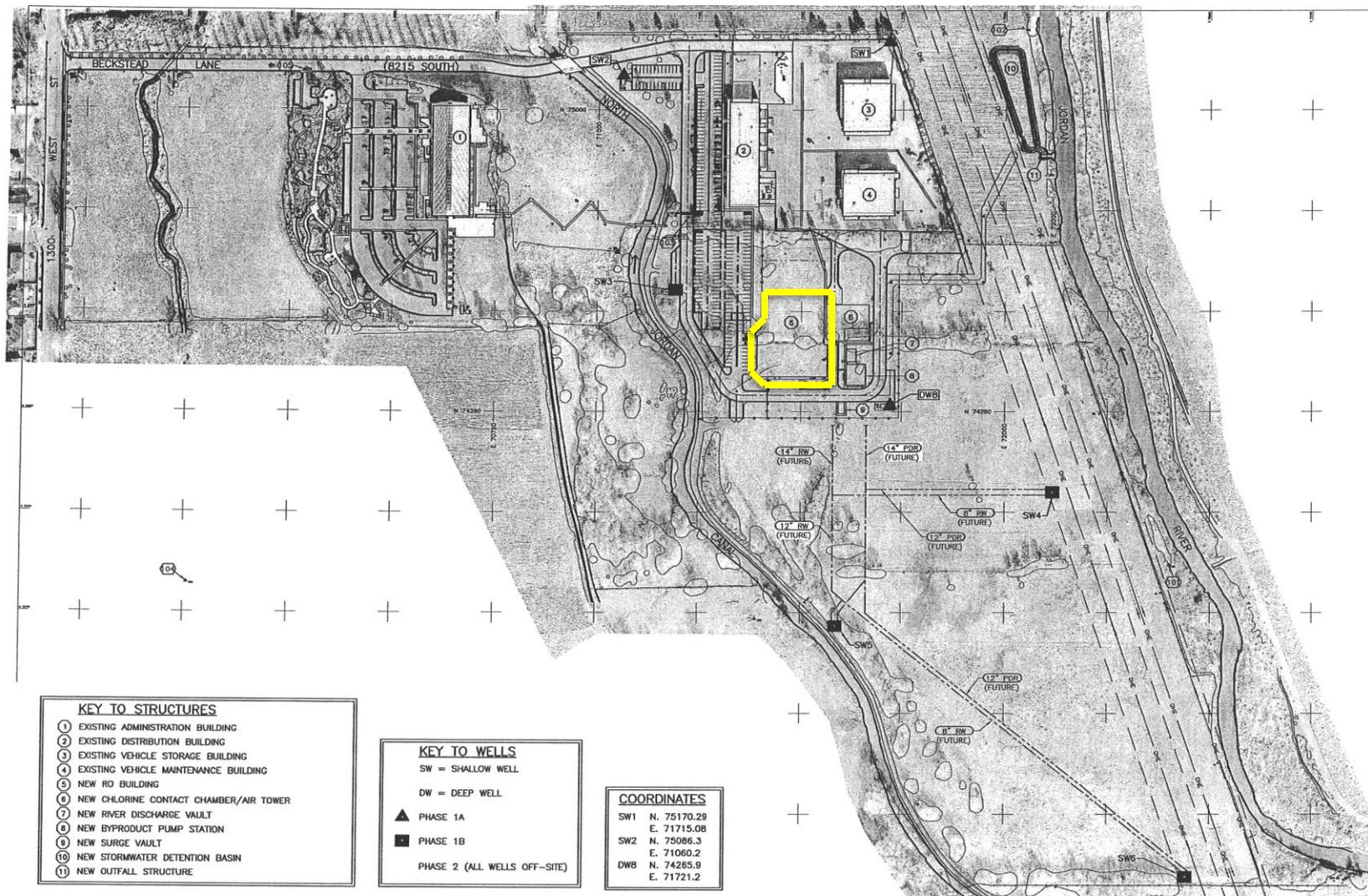
Jordan Valley Water Conservancy District
 CIVIL

JORDAN VALLEY WATER CONSERVANCY DISTRICT
 SOUTHWEST GROUNDWATER TREATMENT PLANT
 CIVIL
 SITE PLAN

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1" 2" 3" 4" 5" 6" 7" 8" 9" 10"

JOB NO. 7056A.10
 DRAWING NO. C-01
 SHEET NO. OF XXX

Overall Site Plan



KEY TO STRUCTURES	
①	EXISTING ADMINISTRATION BUILDING
②	EXISTING DISTRIBUTION BUILDING
③	EXISTING VEHICLE STORAGE BUILDING
④	EXISTING VEHICLE MAINTENANCE BUILDING
⑤	NEW RD BUILDING
⑥	NEW CHLORINE CONTACT CHAMBER/AIR TOWER
⑦	NEW RIVER DISCHARGE VAULT
⑧	NEW BYPRODUCT PUMP STATION
⑨	NEW SURGE VAULT
⑩	NEW STORMWATER DETENTION BASIN
⑪	NEW OUTFALL STRUCTURE

KEY TO WELLS	
SW	= SHALLOW WELL
DW	= DEEP WELL
▲	PHASE 1A
■	PHASE 1B
PHASE 2 (ALL WELLS OFF-SITE)	

COORDINATES	
SW1	N. 75170.29 E. 71715.08
SW2	N. 75086.3 E. 71060.2
DWB	N. 74265.9 E. 71721.2

REV	DATE	BY	DESCRIPTION

DESIGNED
JCR
DRAWN
TSD
CHECKED
CLC
DATE
APRIL 2007

REGISTERED PROFESSIONAL ENGINEER
NO. 6188948
CORY L. CHRISTENSEN
STATE OF UTAH

REGISTERED PROFESSIONAL ENGINEER
NO. 5405444
THOMAS F. SEACORD
STATE OF UTAH

PARTNER

carollo
engineers

Jordan Valley Water
Conservancy District

JORDAN VALLEY WATER CONSERVANCY DISTRICT
SOUTHWEST GROUNDWATER TREATMENT PLANT

CIVIL
PLAN
WELL LOCATIONS

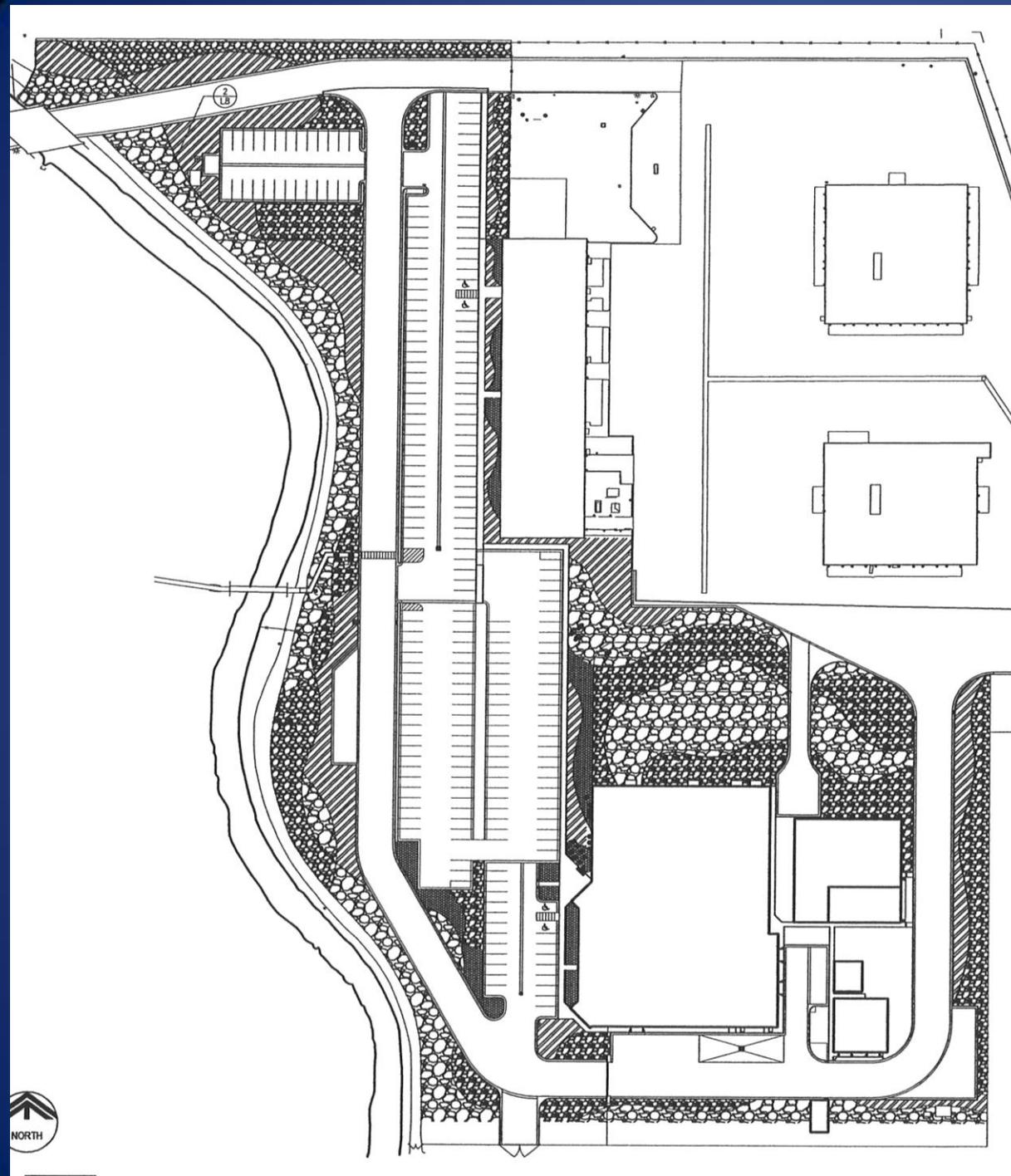
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING

JOB NO.
7096A.10

DRAWING NO.
C-02

SHEET NO.
OF XXX

Landscaping Plan

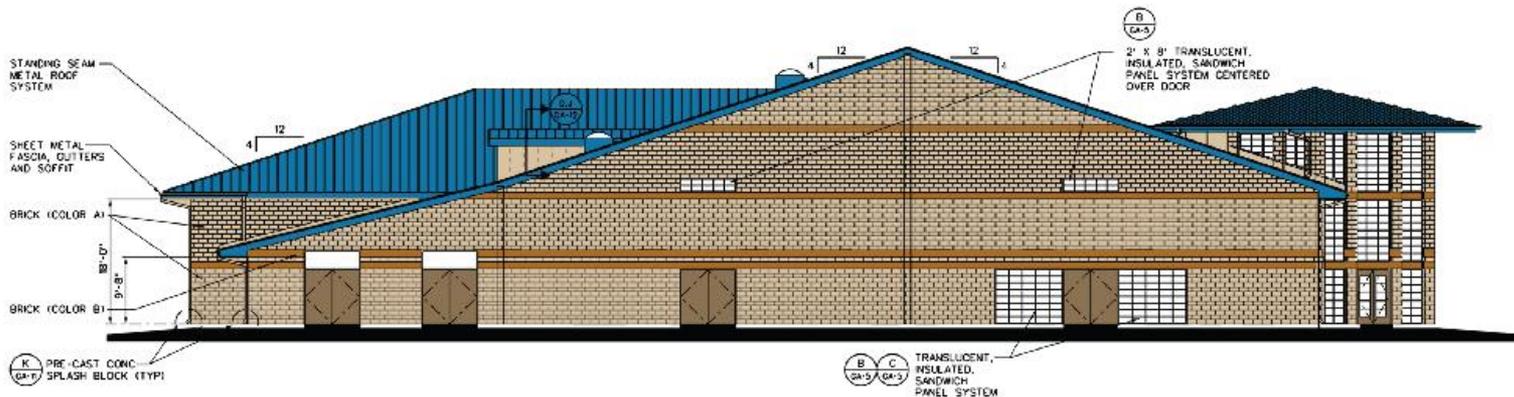


Architectural Sections



WEST ELEVATION

SCALE : 1/8"=1'-0"



NORTH ELEVATION

SCALE : 1/8"=1'-0"

REV	DATE	BY	DESCRIPTION

DESIGNERS
C. Y.
DRAWN
C. Y.
CHECKED
C. Y./DAA
DATE
MAY 2007



JORDAN VALLEY WATER CONSERVANCY DISTRICT
SOUTHWEST GROUNDWATER TREATMENT PLANT
R O BUILDING
EXTERIOR ELEVATIONS I

VERIFY SCALES SHEETS ARE CHECKED BY DRAFTER, DESIGNER	JOB NO 2068A.10
0" = 1'-0"	DRAWING NO. 2A-5
IF NOT ONE EACH ON THIS SHEET, ADJUST SCALE ACCORDINGLY	SHEET NO. 07 OF 10X

Treatment Plant Specifications

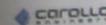


Jordan Valley Water
Conservancy District

Jordan Valley Water
Conservancy District
Construction of



ROMS - Technical Specifications - Volume I of IV
Divisions 00 through 01
MAY 2007



Beginning of Construction



Treatment Plant Construction

- Treatment Plant Site
- Utility Corridor

Removal of Russian Olives



Excavation of Native Soils



Pumping of Shallow Groundwater During Excavation



Utility Corridor



Removal of Topsoil



Stockpiling Topsoil





**Electric Power
Conduit Installation**



24" Steel Treated Water Line (white)
16" HDPE By-product Pipeline (black)



Fuse Welding 30" HDPE Shallow Groundwater Pipeline



Placement of Pipe Bedding



Utility Corridor

(End of slides 1 of 3)

